

WHAT IS CLAIMED IS:

1. A hybrid-powered vehicle comprising:
 - an internal combustion engine;
 - 5 a torque converter having an input shaft connected to an output shaft of said internal combustion engine;
 - a multistage transmission connected to an output shaft of said torque converter;
 - a motor-generator;
 - a storage battery; and
 - 10 a converter circuit for bidirectionally transmitting electric energy between said storage battery and said motor-generator and a program control circuit for controlling said converter circuit,
 - said motor-generator having a rotary shaft connected to an output shaft side of said torque converter,
 - 15 said program control circuit including control means for saddling said motor-generator with torque for an axle of said vehicle during a time period in which a slip occurs in said torque converter in a shifting process of said multistage transmission during a running of said vehicle.
- 20 2. The hybrid-powered vehicle as claimed in claim 1, wherein said control means includes means for operating said motor-generator as a motor during a time period from a time instance at which a slip is detected under a condition that rotation speed of said output shaft of said torque converter is lower than rotation speed of said input shaft of said torque converter to a time instance at which said torque converter is locked up.
- 25 3. The hybrid-powered vehicle as claimed in claim 1, wherein said control means includes means for operating said motor-generator as a generator during a time period from a time instance at which a slip is detected under a condition that rotation speed of said

output shaft of said torque converter is higher than rotation speed of said input shaft of said torque converter to a time instance at which said torque converter is locked up.

4. The hybrid-powered vehicle as claimed in claim 1, wherein said torque converter is
- 5 a hydraulic torque converter.